

FIGURE 1

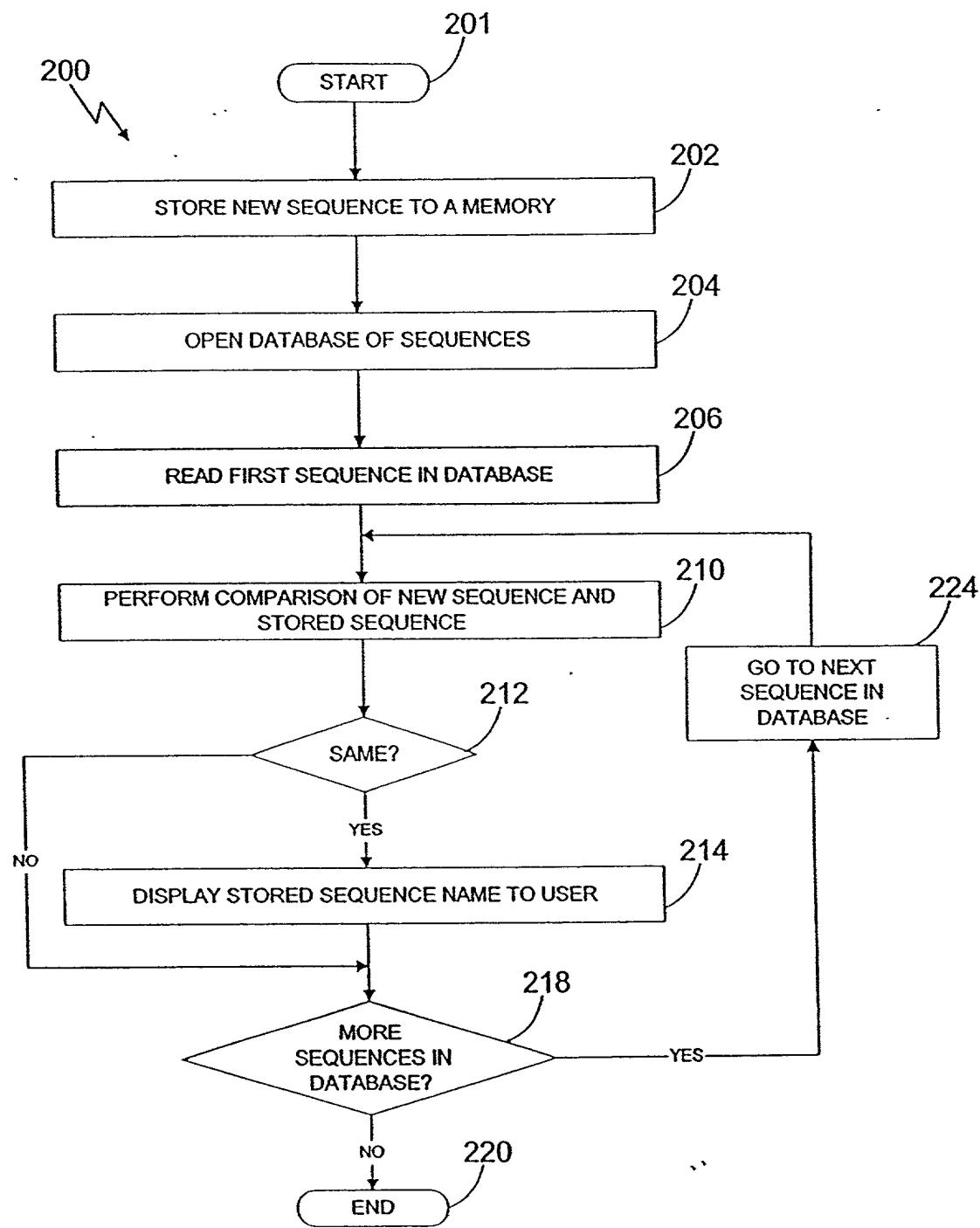


FIGURE 2

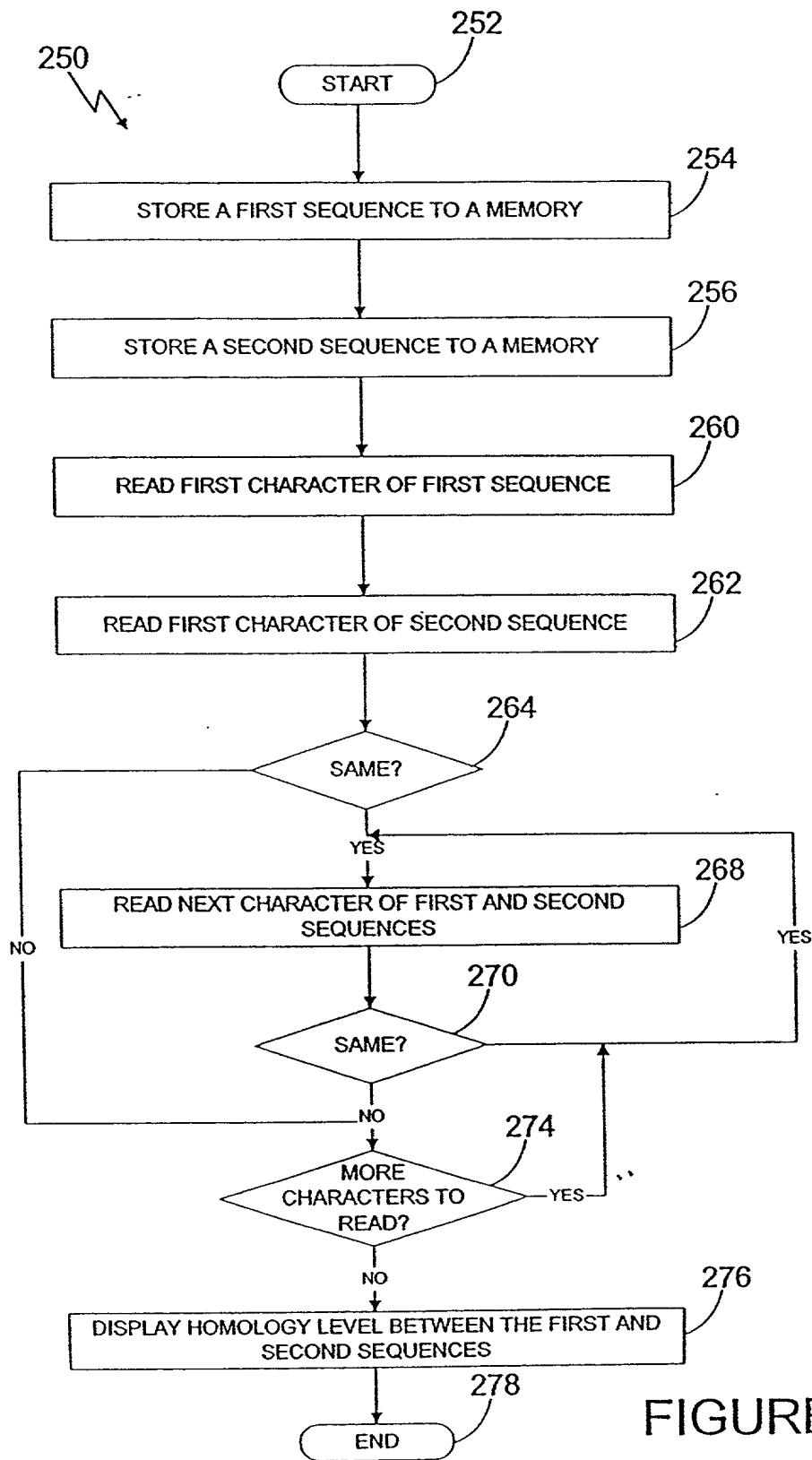


FIGURE 3

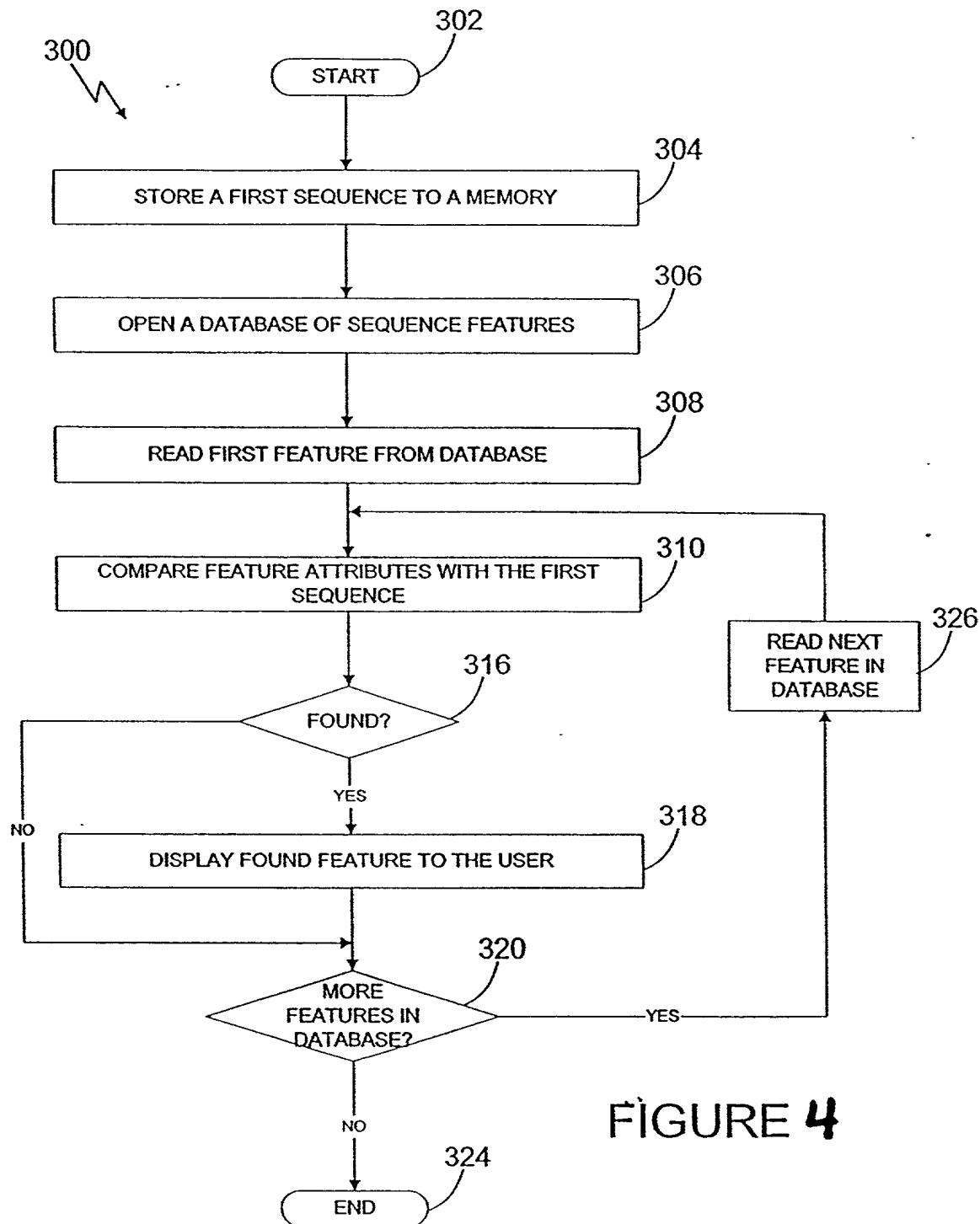


FIGURE 4

FIGURE 5  
*Alcaligenes (Deleya) aquamarinus* Catalase - 64CA2

(SEQ ID NO: 5)  
 (SEQ ID NO: 6)

1 ATG AAT AAC GCA TCC GCT GAC GAT CTA CAC AGT AGC TTG CAG CAA AGA TGC AGA GCA TTT 60  
 Met Asn Asn Ala Ser Ala Asp Asp Leu His Ser Ser Leu Gln Gln Arg Cys Arg Ala Phe 20  
 61 GTT CCC TTG GTA TCG CCA AGG CAT AGA GCA ATA AGG GAG AGA GCT ATG AGC GGT AAA TGT 120  
 Val Pro Leu Val Ser Pro Arg His Arg Ala Ile Arg Glu Arg Ala Met Ser Gly Lys Cys 40  
 121 CCT GTC ATG CAC GGT AAC ACC TCG ACC GGT ACT TCC AAC AAA GAT TGG TGG CCG GAA 180  
 Pro Val Met His Gly Gly Asn Thr Ser Thr Gly Thr Ser Asn Lys Asp Trip Trp Pro Glu 60  
 181 GGG TTG AAC CTG GAT ATT TTG CAT CAG CAA GAT CGC AAA TCA GAC CCG ATG GAT CCG GAT 240  
 Gly Leu Asn Leu Asp Ile Ileu His Gln Gln Asp Arg Lys Ser Asp Pro Met Asp Pro Asp 80  
 241 TTC AAC TAC CGT GAA GAA GTA CGC AAG CTC GAT TTC GAC GCG CTG AAG AAA GAT GTC CAC 300  
 Phe Asn Tyr Arg Glu Glu Val Arg Lys Leu Asp Phe Asp Ala Leu Lys Lys Asp Val His 100  
 301 GCG TTG ATG ACC GAT AGC CAA GAG TGG TGG CCC GCT GAC TGG GGG CAC TAC GGC GGT TTG 360  
 Ala Leu Met Thr Asp Ser Gln Glu Trp Trp Pro Ala Asp Trip Gly His Tyr Gly Gly Leu 120  
 361 ATG ATC CGT ATT GCT TCC GAC ACC TAC CGT ATT GCT GAT GGC CGT GGG GGC 420  
 Met Ile Arg Met Ala Trp His Ser Ala Gly Thr Tyr Arg Ile Ala Asp Gly Arg Gly Gly 140  
 421 GGT GGT ACC GCA AGC CAG CGG CTC AAC TCC GCA CCG CTC AAC GTC AGC CTG 480  
 Gly Thr Gly Ser Gln Arg Phe Ala Pro Leu Asn Ser Trip Pro Asp Asn Val Ser Leu 160  
 481 GAT AAA GCG CGC CGT CTG CTG TGG CCG ATC AAG AAG TAC GGC AAC AAA ATC AGC TGG 540  
 161 Asp Lys Ala Arg Arg Leu Leu Trp Pro Ile Lys Lys Tyr Gly Asn Lys Ile Ser Trp 180  
 541 GCA GAC CTG ATG ATT CTG GCT GGC ACC GTG GCT TAT GAG TCC ATG GGC TTA CCT GCT TAC 600  
 181 Ala Asp Leu Met Ile Leu Ala Gly Thr Val Ala Tyr Glu Ser Met Gly Leu Pro Ala Tyr 200  
 601 GGC TTC TCT TIC GGC CGC GTC GAT ATT TGG GAA AAA GAT ATC TAC TGG GGT GAC 660  
 Gly Phe Ser Phe Gly Arg Val Asp Ile Trp Glu Pro Glu Lys Asp Ile Tyr Trp Gly Asp 220

FIGURE 6  
*Microscilla furvescens* Catalase - 53CA1

(SEQ ID NO: 7)  
 (SEQ ID NO: 8)

1 ATG GAA ATT CAC AAA CAC TCA GGA TCT TCT ACG TAT AAC ACA AAC ACT GGC GGA AAA TGC  
 1 Met Glu Asn His Lys His Ser Gly Ser Gly Ser Thr Tyr Asn Thr Asn Thr Gly GLY Lys Cys 20  
 61 CCT TTT ACC GGA GGT TCG CTT AAG CAA ACT GCA GGT GGC GGC ACC AAA AAC AGG GAT TGG 120  
 61 Pro Phe Thr Gly Gly Ser Leu Lys Gin Ser Ala Gly Gly Thr Lys Asn Arg Asp Trp 40  
 121 TGG CCC AAC ATG CTC AAC CTC GGC ATC TTA CGC CAA CAT TCA TCG CTA TCG GAC CCA AAC 180  
 121 Trp Pro Asn Met Leu Asn Leu Gly Ile Leu Arg Gin His Ser Ser Leu Ser Asp Pro Asn 60  
 181 GAC CCG GAT TTT GAC TAT GCC GAA GAG TTT AAG AAG CTA GAT CTG GCA GGC GTT AAA AAG 240  
 61 Asp Pro Asp Phe Asp Tyr Ala Glu Glu Phe Lys Lys Leu Asp Leu Ala Val Lys Lys 80  
 241 GAC CTG GCA GCG CTA ATG ACA GAT TCA CAG GAC TGG CCA GCA GAT TAC GGT CAT TAT 300  
 81 Asp Leu Ala Ala Leu Met Thr Asp Ser Gin Asp Trp Trp Pro Ala Asp Tyr Gly His Tyr 100  
 301 GGC CCC TTC TTT ATA CGC ATG GCG TGG CAC AGC GCC ACC TAC CGT ATC GGT GAT GGC 360  
 101 Gly Pro Phe Phe Ile Arg Met Ala Trp His Ser Ala Gly Thr Tyr Arg Ile Gly Asp Gly 120  
 361 CGT GGT GGC GGT TCC GGC TCA CAG CGC TTC GCG CCT CTC AAT AGC TGG CCA GAC AAT 420  
 121 Arg Gly Gly Ser Gly Ser Gin Arg Phe Ala Pro Leu Asn Ser Trp Pro Asp Asn 140  
 421 GCC AAT CTG GAT AAA GCA CGA CGT TTG CTT CTT TGG CCC ATC AAA TAC GGT CGA AAA 480  
 141 Ala Asn Leu Asp Lys Ala Arg Leu Leu Pro Ile Lys Tyr Gly Arg Lys 160  
 481 ATC TCC TGG GCG GAT CTA ATG ATA CTC ACA CGA AAC GTC GCT CTC GAA ACT ATG GGC TTT 540  
 161 Ile Ser Trp Ala Asp Ile Met Ile Leu Thr Gly Asn Val Ala Leu Glu Thr Met Gly Phe 180  
 541 AAA ACT TTT GGT TTT GCA GGT GTA TGG GAG CCT GAA GAA GAT GTA TAC 600  
 181 Lys Thr Phe Gly Phe Ala Gly Arg Ala Asp Val Trp Glu Pro Glu Asp Val Tyr 200  
 601 TGG GGA GCA GAA ACC GAA TGG CTG GGA GAC GAG CGC TAT GAA GGT GAC CGA GAG CTC GAA 660  
 201 Trp Gly Ala Glu Thr Gly Asp Lys Arg Tyr Glu Glu Asp Arg Glu Leu Glu 220